

## ABSTRACT

A transparent plastic film having a hard-coating layer on one surface, more particularly a plastic film with a hard-coating layer which is used in fabricating a plastic molded article having the hard-coating layer given thereto by the injection molding method and in which no crack is generated after molding, is provided.

A transparent plastic film with a hard-coating layer, wherein, with  $x$  ( $\mu\text{m}$ ) representing a thickness of a plastic base film, and  $y$  (%) representing an elongation percentage at the time when the film with the hard-coating layer is pulled under a condition at  $22^\circ\text{C}$  with one side fixed and at a pulling speed of 20 mm/min, no crack is generated in the hard-coating layer in a region satisfying a relationship:  $y < 5.7$  if  $x \leq 100$ ,  $y < -0.018x + 7.5$  if  $100 \leq x \leq 150$ ,  $y < -0.008x + 6.0$  if  $150 \leq x \leq 200$ ,  $y < -0.005x + 5.4$  if  $200 \leq x \leq 300$ ,  $y < -0.003x + 4.8$  if  $300 \leq x \leq 400$ ,  $y < -0.002x + 4.4$  if  $400 \leq x \leq 500$ , and  $y < 3.4$  if  $500 \leq x$ , when a tensile test is carried out under the above-mentioned condition.